



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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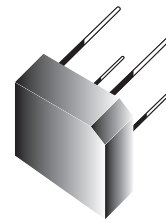


MP10005G-G Thru. MP1010G-G

Reverse Voltage: 50 to 1000V

Forward Current: 10.0A

RoHS Device

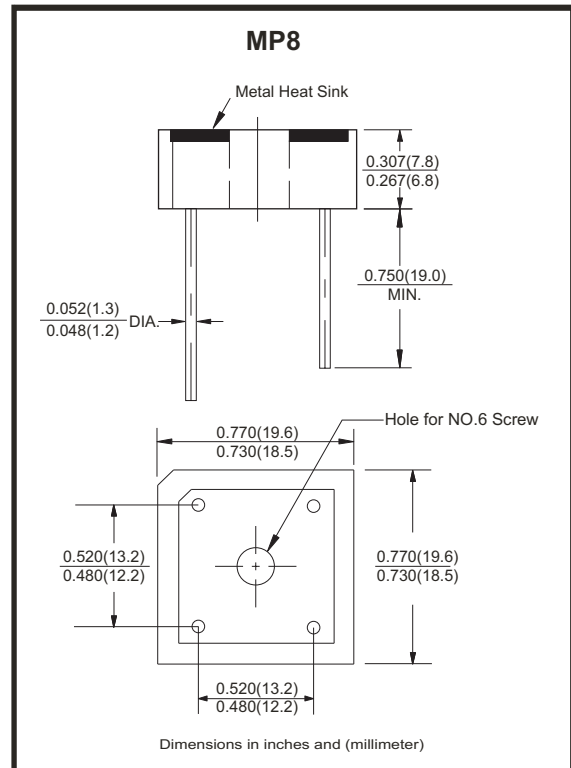


Features

- Low forward voltage drop.
- Small size ; simple installation.
- Sliver plated copper leads
- Surge overload rating - 200 amperes peak.
- Materials used carries U/L recognition.

Mechanical Data

- Polarit:As marked on Body
- Mounting position:Any
- Weight: 7.33 grams



Maximum ratings and electrical characteristics

Rating at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave ,60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Parameter	Symbol	MP10005G -G	MP1001G -G	MP1002G -G	MP1004G -G	MP1006G -G	MP1008G -G	MP1010G -G	Unit
Maximum Peak Recurrent Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current @ $T_A=50^{\circ}C$	$I_{(AV)}$	10.0							A
Peak Forward Surage Current , 8.3ms Single Half Sine-Wave Super Imposed On Rated Load	I_{FSM}	175							A
Maximum Forward Voltage Drop Per Bridge Element at 5.0A Peak	V_F	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage Per Element	I_R	@ $T_J=25^{\circ}C$ 10							μA
		@ $T_J=100^{\circ}C$ 1.0							mA
Operating Temperature Range	T_J	-55 to +150							$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +150							$^{\circ}C$

SMD Glass Passivated Bridge Rectifiers



SMD Diodes Specialist

Rating and Characteristics Curves (MP10005G-G Thru. MP1010G-G)

Fig.1 Derating Curve Output Rectified Current

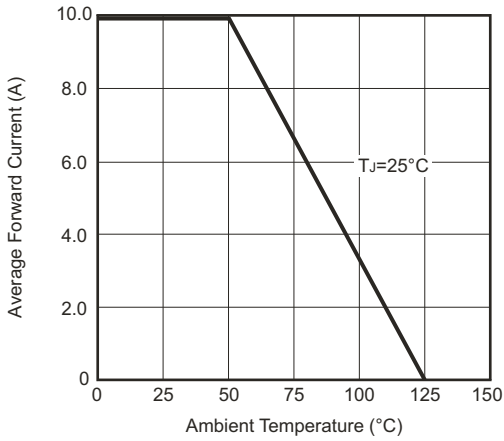


Fig.2 Maximum Forward Surge Current

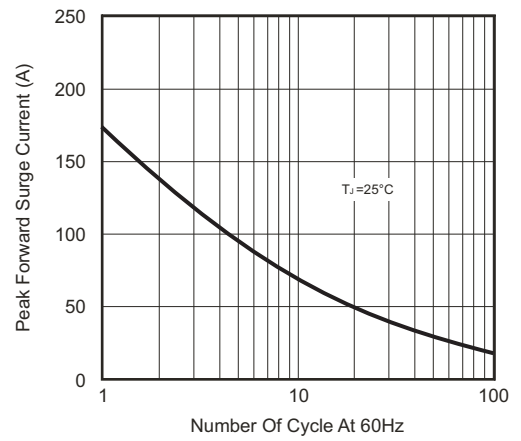


Fig.3 Typical Forward Characteristics

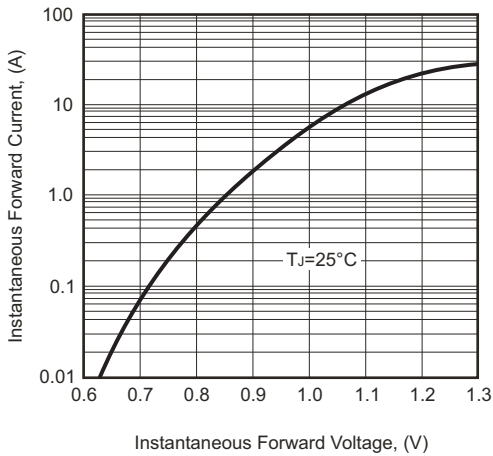
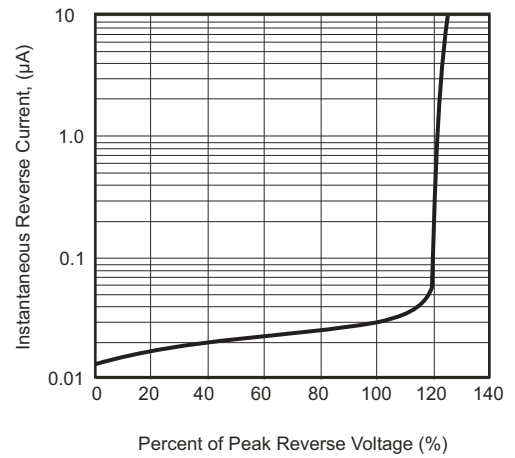
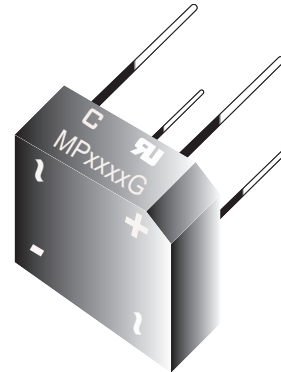


Fig.4 Typical Reverse Characteristics



Marking Code

Part Number	Marking code
MP10005-G	MP10005
MP1001-G	MP1001
MP1002-G	MP1002
MP1004-G	MP1004
MP1006-G	MP1006
MP1008-G	MP1008
MP1010-G	MP1010



XXXX / XXXXX = Product type marking code
 C = Compchip Logo

Standard Package

Case Type	BULK PACK		
	Box (EA)	Box / Carton (EA)	CARTON (EA)
MP8	200	10	2000